RECEIVED
CENTRAL FAX CENTER
FEB û 7 2011

100

AMENDMENTS TO THE CLAIMS

Claims 1-12: (canceled)

- 13. (previously presented) An adduct comprising $MgCl_2$ ethanol and a Lewis base (LB) different from water, said adduct further comprising a fusion enthalpy lower than 100 J/g, and formula $MgCl_2 \bullet (EtOH)_n(LB)_p$, wherein n is from 2 to 6 and p is $0 < p/(n+p) \le 0.1$.
- 14. (previously presented) The adduct according to claim 13, wherein p is $0 < p/(n+p) \le 0.0125$.
- 15. (previously presented) The adduct according to claim 13, wherein the Lewis base is selected from ethers, esters, compounds of formula RX_m, and combinations thereof, wherein R is a hydrocarbon group comprising from 1 to 20 carbon atoms; X is -NH₂, -NHR or -OH; and m is 1 or higher.
- 16. (previously presented) The adduct of claim 15, wherein RX_m is selected from the group consisting of methanol, propanol, isopropanol, n-butanol, sec-butanol, tert-butanol, pentanol, 2-methyl-1-pentanol, 2-ethyl-1-hexanol, phenol, 4-methyl-1-phenol, 2,6-dimethyl-1-phenol, cyclohexanol, cyclopentanol, ethylene glycol, propylene glycol, 1,4-butanediol, glycerine, mannitol, polyvinyl-alcohol, acetonitrile, ethylenediamine, 3-picoline, triethanolamine, triethylamine, and diisopropylamine.
- 17. (canceled)
- 18. (previously presented) A catalyst component for polymerizing at least one olefin comprising a product of a reaction between a transition metal compound and the adduct according to claim 13.
- 19. (previously presented) The catalyst component according to claim 18, wherein the transition metal compound is selected from at least one titanium compound comprising formula $Ti(OR)_nX_{y-n}$, wherein n is between 0 and y; y is a valence of titanium; X is halogen; and R is an alkyl radical

comprising 1-8 carbon atoms, or COR, wherein R is a hydrocarbon group comprising from 1 to 20 carbon atoms.

- 20. (previously presented) The catalyst component according to claim 19, wherein the titanium compound is selected from TiCl₃, TiCl₄, Ti(OBu)₄, Ti(OBu)_{Cl₃}, Ti(OBu)₂Cl₂, and Ti(OBu)₃Cl.
- 21. (previously presented) The catalyst component according to claim 18, wherein the reaction between the transition metal compound and the adduct is carried out in presence of an electron donor compound.
- 22. (previously presented) The catalyst component according to claim 21, wherein the electron donor is selected from esters, ethers, amines, and ketones.
- 23. (previously presented) A catalyst for polymerizing at least one olefin comprising a product of a reaction between the catalyst component according to claim 19, and an aluminum alkyl compound.
- 24. (previously presented) A process for polymerizing at least one olefin of formula CH₂=CHR, wherein R is hydrogen or a hydrocarbon radical comprising 1-12 carbon atoms, carried out in presence of the catalyst according to claim 23.
- 25. (previously presented) An adduct comprising MgCl₂, ethanol and a Lewis base (LB) different from water, said adduct further comprising formula MgCl₂•(EtOH)_n(LB)_p, wherein n is from 2 to 6 and p is 0<p/(n+p)≤0.0125.
- 26. (previously presented) An adduct comprising MgCl₂, ethanol and a Lewis base (LB) different from water, said adduct further comprising formula MgCl₂•(EtOH)_n(LB)_p, wherein n is from 2 to 6 and p is 0<p/p/(n+p)≤0.1, and said Lewis base is selected from the group consisting of methanol, propanol, isopropanol, n-butanol, sec-butanol, tert-butanol, pentanol, 2-methyl-1-pentanol, 2-ethyl-1-hexanol, phenol, 4-methyl-1-phenol, 2,6-dimethyl-1-phenol, cyclohexanol, cyclopentanol, ethylene glycol, propylene glycol, 1,4-butanediol, glycerine, mannitol, polyvinyl-alcohol, acetonitrile, ethylenediamine, 3-picoline, triethanolamine, triethylamine, and diisopropylamine.

27. (new) The adduct of claim 16, wherein RX_m is selected from the group consisting of phenol, 4-methyl-1-phenol, 2,6-dimethyl-1-phenol, ethylene glycol, propylene glycol, 1,4-butanediol, glycerine, mannitol, polyvinyl-alcohol, acetonitrile, ethylenediamine, 3-picoline, triethanolamine, triethylamine, and diisopropylamine.

HP LASERJET FAX